WD Raptor®
Enterprise Hard Drives

Killer Speed
Unsurpassed Reliability
Optimum Value

Interface

SATA

Width/Height

3.5-inch/1-inch

Rotational Speed

10,000 RPM

Capacities

36 to 150 GB

Model Numbers

WD360ADFD
WD740ADFD
WD1500ADFD

Note: Not all products may be available in all regions of the world.

Some hard drive companies design desktop-class drives with the SATA interface. To meet the demands of enterprise storage, WD is going one better. WD is the only company combining a 10,000 RPM enterprise-class mechanical platform with the SATA interface to meet all the demands of the enterprise environment—reliability, performance, and reduced cost.

Product Benefits
WD produces the world's most reliable SATA drives. With 1.2 million hours MTBF, enterprise duty cycle, 5-year warranty, next-generation SATA technology, and state-of-the-art vibration tolerance, WD Raptor drives offer the best combination of reliability, high capacity, and performance for enterprise applications.

Product Features
Reliable — designed and manufactured to enterprise-class standards to provide enterprise reliability in high duty cycle environments. With 1.2 million hours MTBF, these drives have the highest available reliability rating on a high-capacity drive.

Fast — with a next-generation SATA interface, 1.5 Gb/s data transfer rate, native command queuing (NCQ), and 16 MB cache, these drives deliver optimum performance.

RAID-specific, time-limited error recovery (TLER) — a feature unique to WD, prevents drive fallout caused by the extended hard drive error-recovery processes common to desktop drives.

Rotary Acceleration Feed Forward (RAFF™) — optimizes operation and performance when the drives are used in vibration-prone, multidrive systems such as rack-mounted servers or network storage.

FlexPower™ — connector technology that accepts power from either industry-standard or new SATA power supplies.

5-year warranty

Applications
Servers, network attached storage, scientific computing, video surveillance, enterprise backup, document and image management, digital video.

The WD Promise
WD understands the importance of the information you save to your hard drive and we are committed to protecting that data with exceptionally reliable products, advanced data protection technology, and superior customer support. No one does more to safeguard your data than WD.

WD Western Digital®

P U T   Y O U R   L I F E   O N   I T ®

WD Raptor
Enterprise Hard Drives

Drive Specifications

	36 GB	74 GB	150 GB
Formatted capacity[1]	37,019 MB	74,356 MB	150,039 MB
User sectors per drive	72,303,840	145,226,112	293,046,768
WD model number	WD360ADFD	WD740ADFD	WD1500ADFD

SATA latching connector	Yes
Bytes per sector (STD)	512
Form factor	3.5-inch
Interface	SATA 1.5 Gb/s
RoHS compliant[2]	Yes

Performance Specifications

Average latency	2.99 ms
Buffer	16 MB
Cache	
Read	Adaptive
Write	Yes
Data transfer rate (buffer to host)	1.5 Gb/s (maximum)[3]
Drive ready time	7.0 sec (average), 10.0 sec (maximum)
Error rate (non-recoverable)	<1 in 10^{15} bits read
LBA support	Yes
MTBF	1,200,000 hours
Rotational speed	10,000 RPM
Seek time	
Read	4.6 ms (average)
Write	5.2 ms (average)
Track-to-track seek	
Read	0.3 ms (average), 0.6 (maximum)
Write	0.4 ms (average), 0.75 (maximum)
Start/stop cycles	20,000 minimum
Limited warranty[4]	5-year

[1] 1 gigabyte (GB)=1 billion bytes. One terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment.

[2] WD complies with the Reduction of Hazardous Substances (RoHS) Directive 2002/95/EC of the European Parliament, which is effective in the EU beginning July 1, 2006. RoHS aims to protect human health and the environment by restricting the use of certain hazardous substances in new equipment, and consists of restrictions on lead, mercury, cadmium, and other substances.

[3] Maximum burst rate running the specified SATA transfer mode.

[4] Five-year limited warranty unless otherwise required by law. For extended warranty information, visit our Web site at support.wdc.com.

Works with Windows Vista™

Designed for Microsoft® Windows® XP Server 2003

Designed for Microsoft® Windows® XP Windows® 2000

SERIAL ATA 1.5 Gb/s

RoHS COMPLIANT

S·M·A·R·T SYSTEM COMPLIANT

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